1. Product and Company Identification

Product Identifier

**Product Name:** CO2 Alkaline Buffer  
**Product Code:** BK-443320D  
**Recommended Use:** For the quantitative determination of total CO2 in serum and plasma.

Company  
Diamond Diagnostics Inc.  
333 Fiske Street  
Holliston, MA 01746

**Company Phone Number:** 508-429-0450  
**Email:** support@diamondddiagnostics.com  
**Emergency Telephone No:** 508-429-0450

2. Hazards Identification

GHS- Classification

**Classification:** Flammable, Corrosive, Irritant, Toxic, Environmentally Damaging, Health Hazard

**Hazard Statements**

- **H226:** Flammable liquid and vapor.  
- **H302:** Harmful if swallowed.  
- **H314:** Causes severe skin burns and eye damage.  
- **H315:** Causes skin irritation.  
- **H317:** May cause an allergic skin reaction.  
- **H318:** Causes serious eye damage.  
- **H319:** Causes serious eye irritation.  
- **H331:** Toxic if inhaled.  
- **H334:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
- **H335:** May cause respiratory irritation.  
- **H351:** Suspected of causing cancer.  
- **H400:** Very toxic to aquatic life.  
- **H411:** Toxic to aquatic life with long-lasting effects.  
- **H412:** Harmful to aquatic life with long-lasting effects.

**Precautionary Statements**

- **P201:** Obtain special instructions before use.  
- **P202:** Do not handle until all safety precautions have been read and understood.  
- **P210:** Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
- **P233:** Keep container tightly closed.  
- **P240:** Ground/bond container and receiving equipment.  
- **P241:** Use explosion-proof electrical/ventilating/lighting/.../equipment.  
- **P242:** Use only non-sparking tools.  
- **P243:** Take precautionary measures against static discharge.  
- **P260:** Do not breathe dust/fumes/gas/mist/vapors/spray.  
- **P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.  
- **P264:** Wash skin thoroughly after handling.  
- **P270:** Do not eat, drink or smoke when using this product.  
- **P271:** Use only outdoors or in a well-ventilated area.  
- **P272:** Contaminated work clothing should not be allowed out of the workplace.  
- **P273:** Avoid release to the environment.  
- **P280:** Wear protective gloves/protective clothing/eye protection/face protection.  
- **P285:** In case of inadequate ventilation wear respiratory protection.

**IF SWALLOWED:**  
- **P301 + P312:** Call a POISON CENTER or doctor/physician if you feel unwell.  
- **P301 + P330 + P331:** Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a
POISON CENTER or doctor/physician.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and
easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see … on this label).
P330 Rinse mouth.
P331 + P313 If skin irritation occurs: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use … for extinction.
P381 + P363 Store in a well ventilated place. Keep container tightly closed.
P391 Collect spillage.
P403 + P233: Store in a well ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>Reach Reg. No.</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>247-500-7</td>
<td>Not available</td>
<td>26172-55-4</td>
<td>&lt;0.04%</td>
<td>Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H314, H317, H334, H410</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>220-239-6</td>
<td>Not available</td>
<td>2682-20-4</td>
<td>&lt;0.04%</td>
<td>Acute Tox. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; STOT SE 3; Aquatic Acute 1; H302, H314, H317, H331, H335, H400</td>
</tr>
<tr>
<td>2,6-Dimethyl-1,3-dioxan-4-ol acetate</td>
<td>212-579-9</td>
<td>Not available</td>
<td>828-00-2</td>
<td>&lt; 0.01%</td>
<td>Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H226, H302, H315, H319, H335, H351, H412</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eye Contact**
Flush affected area with copious amount of water.

**Skin Contact**
Wash affected area with copious amounts of soap and water.

**Inhalation**
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid.

**Ingestion**
Rinse mouth with water, drink large quantities of water and seek medical aid.

**Notes to Physician**
Treat symptomatically.

5. Fire-Fighting Measures

**Flammable Properties**
No information available

**Flash Point**
27°C (80°F)

**Suitable Extinguishing Media**
Suitable for surrounding fire.

**Hazardous Combustion Products**
No information available

**Protective Equipment and Precautions for Firefighters**
Self-contained breathing apparatus and protective clothing.
6. Accidental Release Measures

Personnel Precautions
Use personnel protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Methods for Containment & Cleaning
Soak up with non-combustible absorbent material. Rinse affected area with copious amounts of water. Dispose of in accordance with applicable federal, state, and local laws and regulations.

Environmental Precautions
Do not let product enter drains.

7. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No Smoking. Take measures to prevent buildup of electrostatic charge.

Storage
Keep container closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.

Specific use
See Section 1 – Recommended Use

8. Exposure Controls / Personnel

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one 2682-20-4</td>
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<tr>
<td>2,6-Dimethyl-1,3-dioxan-4-ol acetate 828-00-2</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Engineering Measures
Showers
Eye Wash Stations
Ventilation Systems

Personnel Protective Equipment

Eye/Face Protection
Safety goggles with side-shields

Skin Protection
Wear protective gloves/clothing

Respiratory Protection
If exposure limits are exceeded or irritation is experienced; NISOH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required high airborne containment concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures
Complete suit protecting against chemicals, Flame resistant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Environment Exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

Appearance
Pink Liquid

Odor
No information available

Odor Threshold
No information available

pH
Approx. 9

Melting Point
No information available

Freezing Point
0°C

Initial Boiling Point
Approx. 100 °C
### 10. Stability and Reactivity

**Reactivity**
No information available

**Chemical Stability**
Stable

**Incompatible Materials**
No information available

**Hazardous Decomposition Products**
No information available

**Hazardous Polymerization:**
Will not occur

**Conditions to avoid:**
Avoid exposure to heat and light

**Suggested Storage:**
Store as recommended on product label

### 11. Toxicological Information

**Acute Toxicity**
No information available

**Chronic Toxicity**
Irritation of affected area.

**Target Organ Effects**
No information available

**Carcinogenicity**
IARC: 2A – Group 2A: Probably carcinogenic to humans (magnesium nitrate hexahydrate)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

### 12. Ecological Information

**Ecotoxicity**
Toxic to fish, daphnia and other aquatic invertebrates.
13. Disposal Considerations

Waste Disposal Method
In accordance with applicable federal, state, and local laws and regulations.

Contaminated Packaging
In accordance with applicable federal, state, and local laws and regulations.

14. Transport Information

IATA
No Restrictions

DOR
No Restrictions

15. Regulatory Information

SARA 302 Components
No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard, Fire Hazard

Massachusetts right to know components
Magazines nitrate hexahydrate
CAS-No. 13446-18-9
Revision Date: 1993-04-24

Pennsylvania right to know components
Magazines nitrate hexahydrate
CAS-No. 13446-18-9
Revision Date: 1993-04-24
2-Methyl-4-isothiazolin-3-one
CAS-No. 2682-20-4
Revision Date: 1993-04-24
2,6-Dimethyl-1,3-dioxan-4-ol acetate
CAS-No. 828-00-2
Revision Date: 1993-04-24

New Jersey right to know components
Magazines nitrate hexahydrate
CAS-No. 13446-18-9
Revision Date: 1993-04-24
5-Chloro-2-methyl-4-isothiazolin-3-one
CAS-No. 26172-55-4
Revision Date: 1993-04-24
Magnesium chloride
CAS-No. 7786-30-3
Revision Date: 1993-04-24
2-Methyl-4-isothiazolin-3-one
CAS-No. 2682-20-4
Revision Date: 1993-04-24
2,6-Dimethyl-1,3-dioxan-4-ol acetate
CAS-No. 828-00-2
Revision Date: 1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Issuing Date
31-December-2008

Revision Date
30-November-2015

Revision Note
No information available

Recommended Restrictions
No Restrictions

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in text.